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NASA Procedural Requirements

COMPLIANCE IS MANDATORY**NPR 8820.2F**Effective Date: January 28,
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 (NASA Only)

Subject: Facility Project Requirements

Responsible Office: Facilities Engineering and Real Property Division[| TOC](#) | [Preface](#) | [Chapter1](#) | [Chapter2](#) | [Chapter3](#) | [Chapter4](#) | [Chapter5](#) | [AppendixA](#) |
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Preface

P.1 Purpose

The purpose of this NASA Procedural Requirements (NPR) is to provide the minimum requirements for the planning and acquisition of NASA facility projects.

P.2 Applicability

This NPR applies to NASA Headquarters, Centers, Component Facilities, and Jet Propulsion Laboratory (JPL) only to the extent specified or referenced in their contract. NASA's program and project policy is found in the NPR 7120 series. The Facility Project Manager (FPM) must comply with these policies; however, the project requirements within this NPR apply to all facility projects on NASA-owned or -controlled real property.

A requirement in this NPR is identified by "shall," a good practice by "should," permission by "may" or "can," expected outcome or action by "will," and descriptive material by "is" or "are" (or other verb form of "to be").

P.3 Authority

a. 42 United States Code (U.S.C.). 2473 (c)(1), Section 203 (c)(1) of the National Aeronautics and Space Act of 1958, as amended (http://www.nasa.gov/offices/ogc/about/space_act1.html).

b. NASA Policy Directive (NPD) 8820.2, Design and Construction of Facilities (<http://nodis3.gsfc.nasa.gov/displayDir.cfm?t=NPD&c=8820&s=2C>).

P.4 Applicable Documents

The following references apply to facilities projects:

- a. Executive Order (EO) 12114, Environmental Effects Abroad of Major Federal Actions.
- b. EO 12196, Occupational Safety and Health Programs for Federal Employees, as amended.
- c. EO 12372, Intergovernmental Review of Federal Programs, 3 CFR (1982 Compilation), as amended by Executive Order 12416, 3 CFR (1983 Compilation).
- d. EO 12699, Seismic Safety of Federal and Federally Assisted or Regulated New Building Construction.
- e. EO 12941, Seismic Safety of Existing Federally Owned or Leased Buildings.
- f. EO 13327, Federal Real Property Asset Management.
- g. EO 13423, Strengthening Federal Environmental, Energy, and Transportation Management.

- h. Code of Federal Regulations (CFR) Part 434, Title 10, Energy Code for New Federal Commercial and Multi-Family High Rise Residential Buildings.
- i. 10 CFR Part 436, Federal Energy Management and Planning Programs.
- j. 14 CFR Part 1216, Environmental Quality.
- k. 29 CFR Part 1910, Occupational Safety and Health Standards.
- l. 29 CFR Part 1926, Safety and Health Regulations for Construction.
- m. 29 CFR Part 1960, Basic Program Elements for Federal Employee Occupational Safety and Health Programs and Related Matters.
- n. 36 CFR 800, Protection of Historic Properties, of the National Historic Preservation Act (NHPA).
- o. NPD 1000.0, Strategic Management & Governance Handbook.
- p. NPR 1441.1, NASA Records Retention Schedules.
- q. NPR 1600.1, NASA Security Program Procedural Requirements.
- r. NPR 1620.2, Physical Security Vulnerability Risk Assessments.
- s. NPR 1620.3, Physical Security Requirements for NASA Facilities and Property.
- t. NPR 1800.1, NASA Occupational Health Program Procedures.
- u. NPD 1800.2, NASA Occupational Health Program.
- v. NPD 1820.1, NASA Environmental Health Program.
- w. NPR 4200.1, NASA Equipment Management Procedural Requirements.
- x. NPR 7120.5, NASA Space Flight Program and Project Management Requirements.
- y. NPR 7120.7, Institutional Infrastructure and Information Technology Program and Project Management Requirements.
- z. NPR 7120.8, NASA Research and Technology Program and Project Management Requirements.
- aa. NPD 7330.1, Approval Authorities for Facility Projects.
- bb. NPR 8000.4, Risk Management Procedural Requirements.
- cc. NPD 8010.2, Use of the SI (Metric) System of Measurement in NASA Programs.
- dd. NPD 8500.1, NASA Environmental Management.
- ee. NPR 8530.1, Affirmative Procurement Program and Plan for Environmentally Preferable Products.
- ff. NPR 8553.1, NASA Environmental Management System (EMS).
- gg. NPR 8570.1, Energy Efficiency and Water Conservation.
- hh. NPR 8580.1, Implementing The National Environmental Policy Act and Executive Order 12114.
- ii. NPD 8700.1, NASA Policy for Safety and Mission Success.
- jj. NPD 8710.5, NASA Safety Policy for Pressure Vessels and Pressurized Systems.
- kk. NPR 8715.3, NASA General Safety Program Requirements.
- ll. NPD 8800.14, Policy for Real Property Management.
- mm. NPR 8800.15, Real Estate Management Program Implementation Manual.
- nn. NPD 8810.2, Master Planning for Real Property.
- oo. NPR 8810.1, Master Planning Procedural Requirements.
- pp. NPD 8820.2, Design and Construction of Facilities.
- qq. NPR 8831.2, Facilities Maintenance Management.
- rr. NPD 9050.6, NASA Exchange and Morale Support Activities.
- ss. NASA Partnering Desk Reference.

- tt. NASA Reliability Centered Building and Equipment Acceptance Guide.
- uu. NASA Project Definition Rating Index (PDRI) Manual.
- vv. Office of Management and Budget (OMB) Circular A-11, Preparation, Submission and Execution of the Budget.
- ww. OMB A-94, Guidelines and Discount Rates for Benefit-Cost Analysis of Federal Programs.
- xx. OMB Circular A-131, Value Engineering.
- yy. Federal Acquisition Regulation (FAR).
- zz. NASA FAR Supplement (NFS).
- aaa. NASA-STD 1740.12, Safety Standard for Explosives, Propellants, and Pyrotechnics.
- bbb. NASA-STD 8719.7, Facility System Safety Guidebook.
- ccc. NASA-STD 8719.9, Standard for Lifting Devices and Equipment.
- ddd. NASA-STD 8719.10, Safety Standard for Underwater Facility and Non-Open Water Operations.
- eee. NASA-STD 8719.11, Safety Standard for Fire Protection.
- fff. NASA-STD 8719.17, NASA Requirements for Ground-Based Pressure Vessels and Pressurized Systems.
- ggg. Federal Leadership in High Performance and Sustainable Buildings Memorandum of Understanding, dated January 2006.

P.5 Measurement/Verification

P.5.1. Do Centers' Construction of Facilities (CoF) programs comply with the requirements of this NPR? To verify compliance, Facility Program Engineers assigned to Headquarters Facilities Engineering and Real Property Division will perform annual CoF program reviews at the Centers.

Reviews entail taking a random selection of CoF projects from each Center and, for those projects, reviewing documentation and interviewing project managers and project stakeholders.

P.6 Cancellation

This revision cancels NPR 8820.2E, dated October 7, 2003.

/S/

Thomas Luedtke

Associate Administrator for Institutions and Management

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